SERVICE ITEMS & EQUIPMENT (16-)

ACCESSORIES **491**
- Accessories / Service Items
- Can Taps (Dispensing Valves)
- Fin Comb (Cond. & Evap.)
- Goggles
- Service Manual / DVD Training
- Service Valve Wrench
- Tape

ADAPTERS (CHARGING) & COUPLERS **493**

ADAPTER KITS **495**

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VACUUM PUMPS **517**

VALVE CORES **514**

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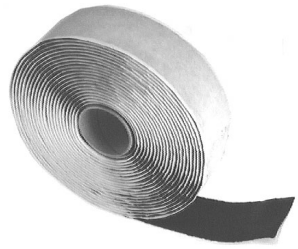
Accessories

Accessories/Service Items

15-3008
Handi-Cut A/C Hose Cutter
Makes quick clean cuts.
Cuts R12, R134a, barrier and non-barrier hoses up to 1 1/2" OD.
15-3009 - Replacement Blade

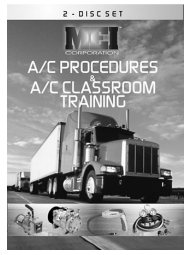
15-3010
Orifice Tube Extractor Kit
Easily removes damaged orifice tubes in Ford & GM vehicles.



16-3007
A/C Service Tape
30 ft. roll

16-3019
A/C Ratchet
Reversible 9/16",1/2" Hex, and 1/4", 3/16" Square.

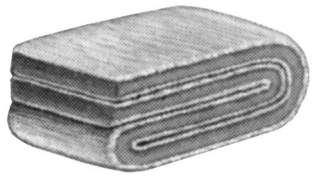
16-3028B
A/C Service Manual
Covers service procedures for R12 / R134a H.D. Trucks.



1000-DVD
A/C Procedures & Classroom Training DVD - two disc set

DVD Features

- Theory & Operation
- Component Function
- Trouble Shooting
- System Diagnosis
- Service Procedures

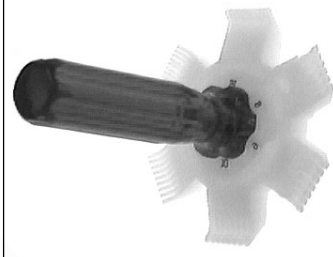


16-3174
Permagum (DumDum)
Used to seal holes in firewall
(1 lb. roll)

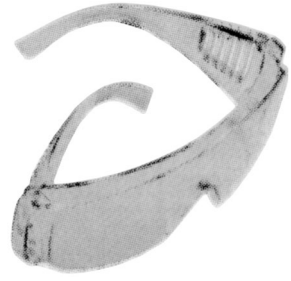
16-3406
R134a Can Tap Valve
Screw on design. Gasket assures leak proof operation.
Built in safety check valve.
Full grip valve handle.
16-3514 ..... Seals *(Box 10)*

16-3430
R134a Recharge Kit
Screw on design with hose and quick coupler. Built in safety check valve.

16-3471
3-In-1 Can Tap Valve
Use on: R12, R134a and Oil Charge Cans
16-3513 ..... Seals *(Box 10)*



16-4090
Coil Fin Comb
Cleans and straightens evaporator and condenser coils.
Six sided head for 6, 8, 10, 12, 14, and 15 fins per inch applications.



16-5015
UV Safety Goggles
These are a must for protection against ultraviolet light when using UV light for leak detection.

(continued)

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Accessories (continued)

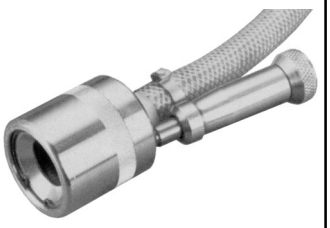
Flushing Components (for A/C Flushes: see page 518)

16-3071
System Flush Kit
Includes flush gun, hose, canister, and canister adapter. Uses shop air to propel flush solvent through each component.

16-3061
Flush Kit w/flush solvent, quart

16-3470
Flush Kit (R12/R134a systems with all oil types)
Contains: Gun, Hose, 1 Gallon of Flush Solvent and Complete Instructions. Adapts to use with all quick coupler types

16-3073
Replacement Flush Probe w/Tip



16-3082
Flush Capturing Unit
• Unit gives technician the opportunity to analyze flush debris as it is being removed.
• Collects flush material for reuse or disposal.

Thermometers

16-3031
Dial Thermometer
1 3/8" Face
Range: -40° to 160° F

16-3033
Dial Thermometer
1" Face
Range: 0° to 220° F

16-3056
Dial Thermometer
1 3/4" Face
Range: 0° to 220° F

16-3135
Digital Thermometer
1" Dial Size, Battery Operated
Range: -58° to 320° F

16-3197
Infrared Thermometer w/Target Laser
7/8" Digital Display, Battery Operated
Range: -4° to 932° F
Ratio: 8:1

16-3198
Dual Temp Infrared w/Contact Thermo.
7/8" Digital Display, Battery Operated
Range: -76° to 1400° F
Ratio: 30:1 (case included)

16-3421
Digital Thermometer
.75" Digital Display, Battery Operated,
Range: -58° to 571° F

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Adapters (Charging) & Couplers

16-3005
GM High Side Service Port
1/4" x 3/16" Female

16-3010
Manual Control Valve
1/4" FFL x 1/4" MFL

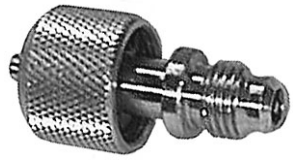
90° GM High Side Service Port

16-3015
1/4" x 1/4" Female

16-3041
1/4" x 3/16" Female

Quick Seal Fitting Adapter
Anti-blow back fitting for charging hoses.

16-3078	1/4" MFL x 1/4" FFL
16-3077	1/4" MFL x 3/16" FFL
16-3416	1/2" ACME x 1/2" ACME
16-3053	Replacement Seals (10)



16-3116
GM High Side Adapter - (R12)
"Positive Seal"
1/4" x 3/16" FFL
Use w/08-8434 charging valve.

16-3118
Manual Shut-Off Ball Valve - (R12)
1/4" x 1/4" Swivel Ball less hose

16-3072
Charging Adapter
GM 6" Flexible 1/4" x 3/16"

16-3075
Charging Adapter
Ford 1/8" High Side Adapter

16-3079
Charging Adapter
6" Flexible 1/4" x 1/4"

16-3106 ..... 1/4" x 1/4"
16-3107 ..... 1/4" x 3/16"

90° Manual Shut Off Valve - R12
Manual control valve controls the flow of refrigerant, meeting EPA requirements to contain R12. Attaches to charging hose end.

16-3182 ..... 1/4" x 1/4"
16-3184 ..... 1/4" x 3/16"

Straight Manual Shut Off Valve - R12
1/4" turn ball valve controls the flow of refrigerant. Anti-Blowback fitting automatically shuts off high side charging hose when disconnected from system; no refrigerant loss or finger burns.

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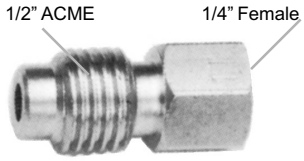
Adapters (Charging) & Couplers (continued)

Gasket/O-Ring
Low Side **16-3427**
High Side **16-3428**

16-3408 - 16mm Low Side (Blue) Charging Coupler for R134a
16-3409 - 13mm HighSide (Red) Charging Coupler for R134a
(Required in order to hook up R134a hoses to system)

16-3410
R134a Conversion Kit
Convert R12 manifold set to R134a



16-3414
Vacuum Pump Conversion Fitting Retro-Adapter
Convert R12 pumps to R134a

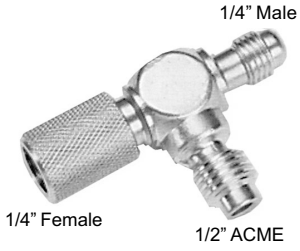
16-3415
Vacuum Pump Conversion Fitting Retro-Adapter
Convert R12 pumps to R134a

Gasket/O-Ring
Low Side **16-3427**
High Side **16-3428**

16-3423 - Low Side Coupler - Blue
16-3424 - High Side Coupler - Red
Unique swivel design enables user to access all service ports even in the tightest applications

Coupler Repair Components

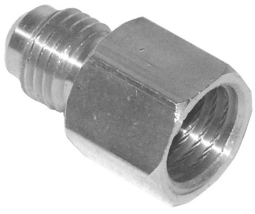
16-3427 ..... 5 guides/5 o'rings for P/N 16-3409
16-3428 ..... 5 guides/5 o'rings for P/N 16-3408
16-3487 ..... 10 o'rings for P/N 16-3423
16-3488 ..... 10 o'rings for P/N 16-3424



16-3449
Vacuum Pump Conversion Fitting
"T" Style Retro-Adapter to convert R12 pumps to R134a

16-3465
Access Service Valve
1/2" ACME-M x 1/8" NPT

16-3477
Adapter Fitting
1/2" ACME M x M

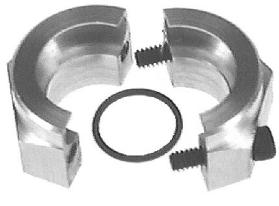


16-3515
Adapter Coupler R134a
1/4" Male Flare (7/16" -20) x 1/2" ACME Female

16-3516
Refrigerant Tank Adapter
R134a (low side)
13 mm x 1/2" ACME Female

16-4080
Spring Lock Disconnect Tool Set
Set includes four sizes:
3/8", 1/2", 5/8", and 3/4"

Spring Lock Individual Disconnect Tools
16-4081 .....#6 ... 3/8"
16-4082 .....#8 ... 1/2"
16-4083 .....#10 ... 5/8"
16-4084 .....#12 ... 3/4"



Springlock Coupling Repair Kits
Nylon Construction
16-4085 .....#6 ... 3/8"
16-4086 .....#8 ... 1/2"
16-4087 .....#10 ... 5/8"
16-4088 .....#12 ... 3/4"

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Adapter Kits and A/C Service Repair Kit

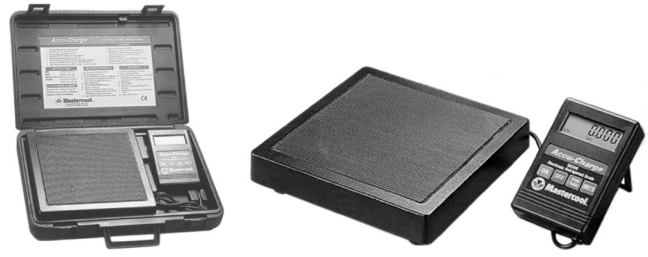
16-3086
Deluxe A/C Service Repair Kit
Replacement gaskets, depressors, and o'rings for charging hoses and adapters.
Kit Includes:
Part No.

16-3037 .... 1/4" Gasket (10 pcs)
16-3038 .... 1/4" Depressor (10 pcs)
16-3428 .... O'Ring for #16-3408 (10 pcs)
16-3427 .... O'Ring for #16-3409 (10 pcs)
16-3437 .... Gasket for R134a hose (10 pcs)
16-3441 .... O'Ring for R134a hose (10 pcs)
16-3436 .... Gasket for #16-3416 (10 pcs)
16-3126 .... Gasket, R12 Shut-off vlv (10 pcs)

16-3087
Universal A/C Adapter Set
Kit Includes:
- 1/4" x 1/4" shut-off
- 1/4" x 3/16" shut-off
- GM 1991 & later service adapter
- 1/4" x 3/16" GM flex
- 1/4" x 1/8" Ford flex
- Ford quick disconnect
- GM & Ford quick disconnect
- GM Large Bore quick disconnect

16-3088
Popular A/C Adapter Set
Kit Includes:
- 1/4" x 1/4" shut-off
- 1/4" x 3/16" shut-off
- GM 1991 & later service adapter
- 1/4" x 1/8" 90° shut-off (Ford high side)
- 1/4" x 3/16" shut-off
- Ford quick disconnect
- GM Large Bore quick disconnect

Charging Service Equipment



16-3167A
Accu-Charge Electronic Refrigerant Scale
Features include 15 minute auto-off function, memory function saves last weight when unit shuts off, 176 pound capacity, 60 hour performance on one 9V alkaline battery, compact 9"x9" platform, carrying case, extra large LCD display and reliable membrane keypad switches.

16-3173
Accu-Charging Module
This Charging Module turns Accu-Charge Electronic Refrigerant Scale into an automatic programmable scale. This module allows the user to control the exact amount of refrigerant transferring to and from the A/C System. Battery powered 9 volt. Includes hose for tank connection, USB cord and 1/4" flare 1/2" ACME adapters.

16-3500
Portable Recycler
Includes 30 lb. DOT Tank

- Recovers and removes moisture, oil and debris from refrigerant.
- New Recovery System: offers a State-of-the-Art 1/2 hp Oil-less Compressor with a built-in High Volume Cooling Fan for fast recovery.
- Color-coded Sight Gauge identifies when Filter Dryer replacement is needed.
- Complete A/C Recovery System Unit with built in Oil Separator and Filter Dryer, 30 lb. DOT Tank and Cable, 72" Yellow and Blue Hoses, R134a Low Side Coupler and Oil Purge Bottle.

16-3530
Recovery Refrigerant Tank - R134a 30 lb.

16-3504
Portable Electronic Charging Stations - R134a
A lightweight, durable, steel frame cart that contains all the necessary tools to quickly and conveniently charge the A/C system. No need for different sized charging cylinders with Mastercool's rugged die cast electronic scale. Simply place the refrigerant cylinder on the scale and charge.

MANIFOLD VACUUM
- 2-Way Aluminum Block
- 5 CFM 110v / 60Hz

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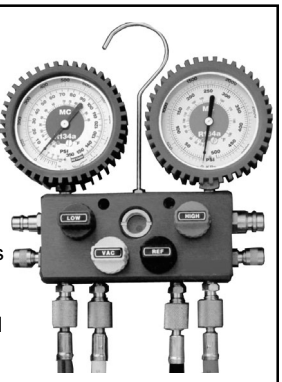
Charging Manifolds

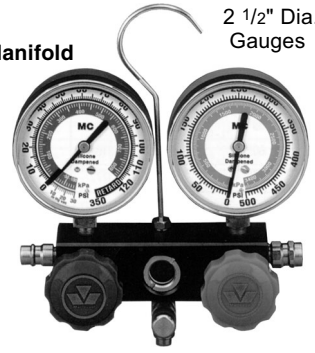
16-3129 ..... R12/22/502
Deluxe Brass Side Wheel Manifold
Manifold gauge set with three 96" color-coded hoses with quick coupling valves. Unit has brass forged body for extreme durability with angled side hand valves for ease of operation. Double O'ring seals for smooth action valves and anti-flutter gauges for smooth pressure readings.

16-3132 ..... R12/22/502
16-3439 ..... R134a
Deluxe Aluminum 4-Way Manifold
Manifold gauge set with three 72" color-coded hoses with quick coupling valves. Four-way manifold gauges give you more control over air conditioning service. Four ball valves control refrigerant flow, vacuum and access to the system high and low sides with only a quarter turn. Four-way manifolds attach to service tools and the A/C system once. After that, control everything with a simple quarter turn of the valves.

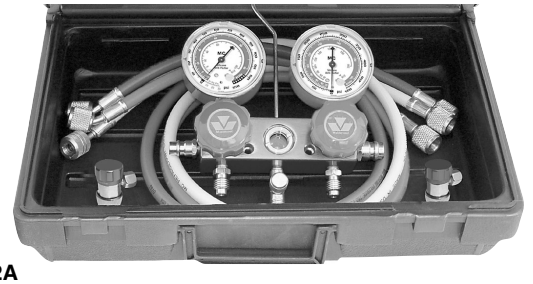


16-3432 ..... R134a
Deluxe Aluminum Side Wheel Manifold
Manifold gauge has three 96" R134a color coded hoses with quick coupling valves. Silicone dampened anti-flutter gauges, extruded aluminum manifold body with easy access hand valves attached to free floating piston valves for smooth and trouble free operation.

2 1/2" Dia. Gauges



16-3432S - Less expensive Brass type manifold set



16-3432A
Deluxe Brass Side Wheel Manifold - R134a
Manifold gauge has three 72" R134a color coded hoses with quick coupling valves. Silicone dampened anti-flutter gauges, extruded aluminum manifold body with easy access hand valves attached to free floating piston valves for smooth and trouble free operation.

16-3433
Digital Manifold Set - R134a
A plastic molded case includes a manifold with a set of 3 -72" hoses and a set of manual couplers.

SPECIFICATIONS

- Pressure Display: PSI, IN-Hg, BAR, MPa and kg/cm^2
  (Low Side Range: 0 - 350 PSI)
  (High Side Range: 0 - 500 PSI)
- Operating Temperature: 16 - 42°C (60 - 108°)
- Battery Life: 50 hours
- Idle Mode: 400 hours
- Auto Shut-off: 15 minutes

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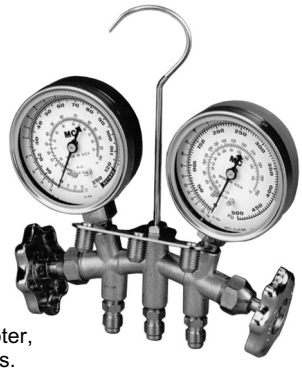
Charging Manifolds (continued)



16-3490
Dual Brass Manifold Set - R12/R134a
Manifold gauge has three 72" nylon hoses, standard couplers, tank adapter, and 2 1/2" silicone anti-flutter gauges.

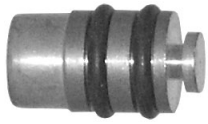
16-3490A
Dual Brass Manifold Set - R12/R134a
Manifold gauge has three 72" nylon hoses, standard couplers, tank adapter, and 2 1/2" silicone anti-flutter gauges.

TECH TIP

16mm x 1/4" Male
1/2" ACME
13mm x 1/4" Male
1/4" FF

16-3410
Coupler Kit
Use to convert R12 manifolds to R134a.

16-3511
O'Rings for Brass Manifolds *(12each)*



16-3512
Seal and Seat Assembly for Brass Manifolds

Replacement Compound Gauges

2-1/2" Diameter

16-3096 - R12
High Side Pressure Gauge (Red)

16-3097 - R12
Low Side Pressure Gauge (Blue)

2-1/2" Diameter

16-3496 - R134a
High Side Pressure Gauge (Red)

16-3497 - R134a
Low Side Pressure Gauge (Blue)

Charging Hose - R12

Charging Hoses with Manual (Ball Valve) Shut-Off

16-3138 Blue - **96"** Hose
16-3139 Red - **96"** Hose

16-3182 Red - **7"**
16-3184 Red - **7"** w/ 3/16" end

Charging Hose Sets

Replacement Charging Hoses with Quick Seal Fittings

R134a Type

16-3403 Blue **- 60"**	**16-3404** Red **- 60"**	**16-3405** Yellow **- 60"**
16-3400 Blue **- 96"**	**16-3401** Red **- 96"**	**16-3402** Yellow **- 96"**
16-3480 Blue **- 144"**	**16-3481** Red **- 144"**	**16-3482** Yellow **- 144"**

Replacement Charging Hoses with Quick Seal Fittings

R12/22/502 Type

16-3103 Blue **- 96"**	
16-3104 Red **- 96"**	
16-3105 Yellow **- 96"**	

16-3491
R12 to R134a
Manifold Conversion Hose Set
Converts R12 manifold to R134a hoses.
Three 72" hoses with couplers

16-3492
72" Conversion Charging Hose Set - R134a
Same as 16-3491 but without couplers.

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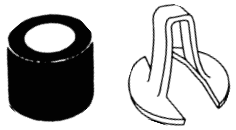
Charging Depressors & Seals



16-3014
Refrigerant Hose Depressor & Gasket
1/4" Valve Depressor and Gasket
3 each per pack

16-3037
Refrigerant Hose Gasket
Valve Gasket 1/4"
10 per pack

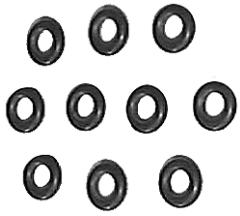
16-3038
Refrigerant Hose Depressor
Valve Depressor 1/4"
10 per pack

16-3053
Anti-Blow Back Seals
Seal 1/4"
10 per pack

16-3427 (Low Side)
16-3428 (High Side)
Coupler Repair Components
R134a Charging Hose Seals
Box of 5 each

16-3436
R134a Charging Hose Seals
For use with R134a Charging Hoses with 1/2" ACME Fittings. Fits onto Quick Seal Fitting end of hose.
Box of 10 (for yellow hose)

16-3437
R134a Charging Hose Seals
For use with R134a Charging Hoses with 1/2" ACME Fittings. Fits onto Manifold end of hose.
Box of 10
(for red/blue and yellow hoses)



16-3438
R134a to R12 Adapter Seals
Box of 10 (Fits P/N 16-3414)

16-3441
R134a Charging Hose Seals
(14 mm end)
Box of 10 (for red/blue hoses)

Coupler Repair Components

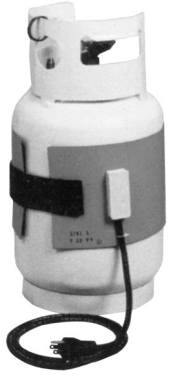
16-3487
Red - High Side
10 o'rings for P/N 16-3423

16-3488
Blue - Low Side
10 o'rings for P/N 16-3424

ROBINAIR Accessories for Charging Stations, Recovery and Recycling Equipment

16-3119
Quick Change Recycling Filter
For Older Robinair Models:
17700A, 34430, 34450, 34700 Series

16-3216
Spin-On Recycling Filter
For Robinair Models:
34134 Ser., 17700-2K, 34234, 34300-2K, 34724, 34700 thru 34900 Series w/Spin-on



16-3080
Heater Blanket
For Robinair Model: 34134-2K
(cylinder not supplied)

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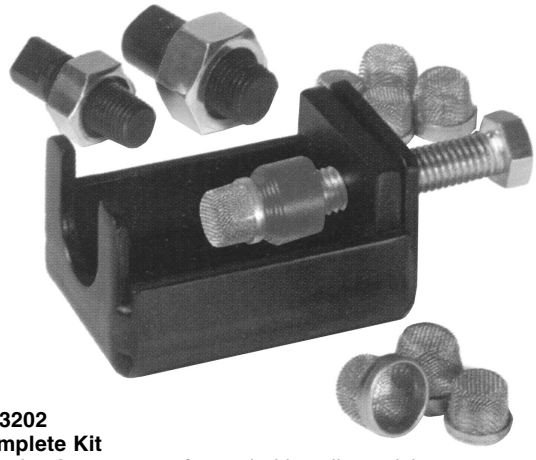
Compressor Filter Screen Guardian Kit

Prevent compressor loss with A/C COMPRESSOR GUARD

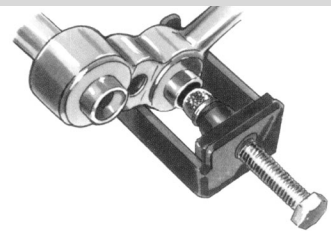
- A suction side screen safely removes debris before it harms a compressor
- Quick and easy installation
- Maintains OE configuration
- No hose cutting means no additional leak points
- Screen available in a variety of sizes



16-3202
Complete Kit
Includes 3 extractors, 2 mandrel installers, sizing gauge, 4 ea. of three different screen sizes.

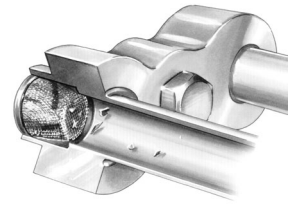
Replacement Screens

16-3206	5 Pack "A" Screens .510 O.D.
16-3207	5 Pack "B" Screens .552 O.D.
16-3208	5 Pack "C" Screens .595 O.D.



Special insertion tool seats the screen securely in the suction side

Extractor tool easily removes screen from the suction side



The suction screen prevents debris from entering the compressor

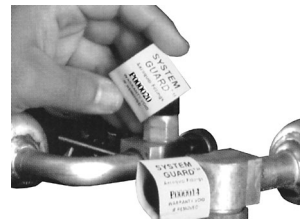
System Guard™ Sleeves

Protect your work with tamper resistant SYSTEM GUARD™

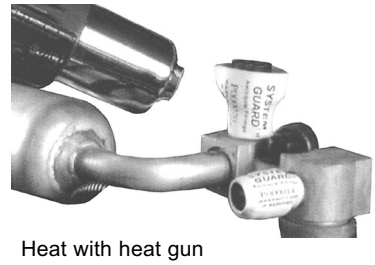
- Insures the service dealer that the customer will come back to him for service
- Assure the service dealer that his shop was the last one to work on the system
- Tamper evident seal protects your work
- Reduce unnecessary warranty work
- Prevent risk of cross-contamination

This Air Conditioning System has been protected with System Guard™ Tamper Evident Sleeves
Removal of Sleeves May Void Warranty.
System Guard™
Refrigerant Type: R-12 ❑ R-134A ❑
High Side Serial Number
Low Side Serial Number
Repair Facility
City State Zip
Date of Service / /

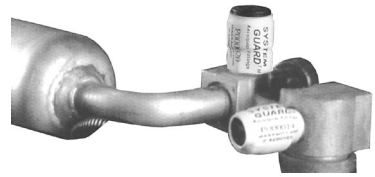
16-6025	20 Vehicle Kit:	40 Sleeves	20 labels	
16-6101	10 Vehicle Kit:	20 Sleeves	10 labels	(Aeroquip Style)
16-6102	50 Vehicle Kit:	100 Sleeves	50 lables	
16-6100	125 Vehicle Kit:	250 Sleeves	125 labels	



Slide over charge port cap



Heat with heat gun



System is protected

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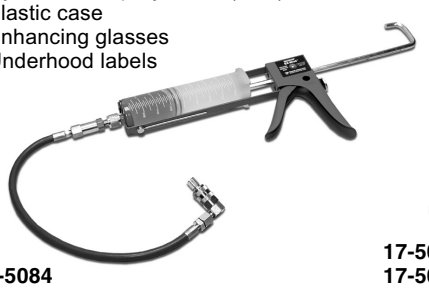
Leak Detectors, Dyes and Accessories

TRACERLINE- Leak Detection

16-5081
EZ-Shot™ Leak Detection Kit
Kit includes:
- Inspection lamp
- Dye injection gun, hoses, couplers for R-12/R134a systems
- Dye cartridge (8oz.) universal for all a/c systems
- Dye cleaner spray bottle (8oz.)
- Plastic case
- Enhancing glasses
- Underhood labels



16-5084
EZ-Shot™ Injector
Used to inject dye cartridges.

17-5068 ..... 4 oz.
17-5069 ..... 8 oz.
A/C Dye Cartridges
Prefilled and disposable

16-5082
EZ-Ject™ Leak Detection Kit
Kit includes:
- Inspection lamp
- Dye injection gun w/R134a hose/coupler w/R12 adapter/fitting
- Dye cartridge universal for all a/c systems
- Dye for all oil-based fluids(1 oz. bottle)
- Leak dye coolant/auto body (1 oz. bottle)
- Plastic case
- Enhancing glasses
- Underhood labels

16-5083
OPTIMAX Jr™
Mini flashlight reveals leaks, Compatible with all leak dyes, Ultra compact, lightweight, LED bulb, batteries included.

Stick Capsules

Tracer stick is injected into the A/C system through the low pressure valve. The A/C system is then operated to thoroughly circulate the dye in the system. When the refrigerant escapes from the system, it will leave a residual amount of dye at the point of leakage. The ultraviolet light will then locate the point of leakage revealed by a bright fluorescent glow.

Low Side Small Capsules For 1-2.9 lbs. Refrigerant Systems

17-5040	Ester R134a	.03 oz. Capsule	Qty 1 ea.
17-5060	PAG R134a	.03 oz. Capsule	Qty 1 ea.

Low Side Large Capsules For 3-4.9 lbs. Refrigerant Systems

17-5041	Ester R134a	.5 oz. Capsule	Qty 1 ea.

17-5079 ..... 8oz.
All-In-One Dye
For gasoline, diesel engine oils, fuel; a/trans., power steering, hydraulic and lubrication fluids.

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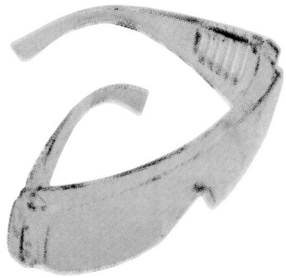
Leak Detectors, Dyes and Accessories



16-5015
UV - Spectacles
Provides maximum eye protection against high-intensity UV exposure. Reduces eye fatigue. Improves fluorecent contrasts. Used with fluorescent leak tracer systems.

16-3453
CPS L790a Digital Electronic Leak Detector (R12/R134a)

FEATURES:

- VARIABLE SENSITIVITY - 10 different sensitivity ranges for effectively locating all refrigerant leaks, large and small.
- CLEAR - Clears the memory in the micro-computer & recalibrates to ambient.
- LOCK-OUT™ - Selects Lock-Out™ mode, measuring & recording the highest level detected by the Ion-Pump™. Alarm sounds a two-tone signal & the visual display flashes when the recorded high has been detected, "locking out" all background contamination.
- ALARM SELECT - Select audible alarm, visual indicator or both.
- VISUAL INDICATOR - 10 position moving LED display indicates varying halogen concentrations. As the concentration increases, the LED moves left to right. In the LOCK_OUT™ mode, the LED's flash.
- POWER SAVER - Automatically switches power off after 15 minutes of use. Extends battery life.

ALSO AVAILABLE

16-3467 ..... Replacement Tip

Mastercool™ UV Leak Locator Kits

16-5059A
UV LEAK LOCATOR KIT

- FLEXnGLOW™ Compact Kit Design
- Brilliant 12V/50 Watt UV Light
- Compact Professional Dye Injector
- 10 Applications (R12/R134a Universal Concentrated Dye)
- UV Enhancing Safety Glasses
- Dye Cleaner
- R12 Adapter
- 10 Service Info. Labels
- Uses #17-5087 UV Dye

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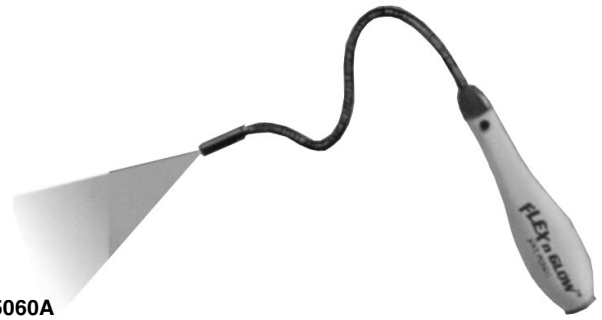
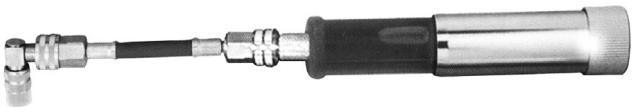
Leak Detectors, Dyes and Accessories

Mastercool™ UV Leak Locator Kits (continued)



16-5060A
Mastercool™ Compact UV Light
- FLEXnGLOW™ Flexible Wand
- Bright LED Technology
- Rugged Ergonomic Grip
- Includes UV Enhancing Safety Glasses



16-5025A
Mastercool™ Dye Injector (Cartridge Type)
Adding dye is fast and easy, simply connect the injector to the low side of the A/C System and twist the handle to the next application line. Replaceable cartridges provide 25 applications of dye that is compatible with R12/22/502 and R134a Systems. The injector hose comes complete with an R134a coupler and a drip free control valve for R12 systems.

Uses **#17-5088** dye cartridge

The INSPECTOR
This new design allows the user to perform electronic and UV leak detection all with one tool. The ultra bright UV light is built into the end of the probe allowing easy access into tight areas. Incorporating both electronic and UV technology into one unit insures that even the toughest leaks can be found.

16-3463
Mastercool™ 2-In-1 Electronic UV Leak Detector
The INSPECTOR offers:
- 6 levels of sensitivity (15 levels of detection)
- Ultra Bright UV/Blue LEDLight
- UV Safety Glasses
- Tri-Colored visual leak level indicator
- Mute function
- Detects leaks as small as 1/10 ounce (3g) per year
- Custom molded carring case

16-3520 ..... Replacement LED Bulb
16-3521 ..... Replacement Sensor Tip

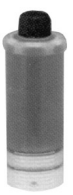
16-3454
Mastercool™ Electronic Leak Detector
An Accurate And Reliable Solution To Electronic Leak Detection
- 3 levels of sensitivity (5 levels of detection)
- Visual leak level indicator
- Detects leaks as small as 1/4 ounce (7g) per year
- Custom molded carrying case

16-3521 ..... Replacement Sensor Tip

Mastercool™ Replacement Dyes For #16-5025A, #16-5059A and #16-5080 Injectors

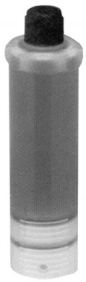
For use with #16-5059A + 16-5080 only

17-5087
Provides 10 Applications
12 c.c. bottle
R12/R134a Dye Cartridge



For use with #16-5025A only

17-5088
Provides 25 Applications
25 c.c. bottle
R12/R134a Dye Cartridge



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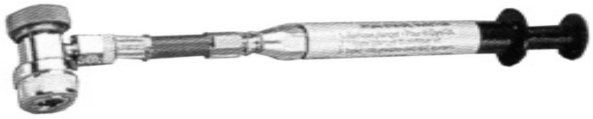
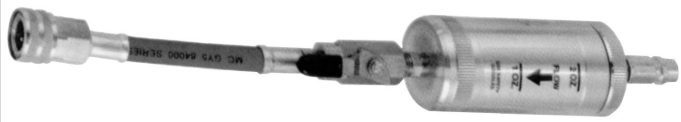
Oil Injectors

16-3134 - Oil Injector - R12
16-3474 - Oil Injector - R134a
Can be used with charging stations or manifold gauge sets to measure and dispense up to 2 oz. of oil.

16-3473 - Oil Injector - R134a
Installs on the low side of the manifold to pull refrigeration oil into the system while under vacuum.



16-3479 - Syringe Oil Injector - R134a
16-3283 - Syringe Oil Injector - R12
Use to add refrigeration oil to fully charged A/C systems-the fittings connect to the low side access port.
Fill the barrel with the amount of oil needed (levels are clearly marked), connect to the port and press the plunger.
A check valve prevents any backflow of refrigerant.
Also can be used to inject fluorescent dye.



16-3489 - Oil Injector - R134a
16-3244 - Oil Injector - R12
Add oil by allowing vacuum to pull it in after evacuation process or use refrigerant to push it in using the recharge process, measures and dispenses up to 2 oz. of oil.

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O-RINGS AND GASKETS

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ITEM **Freightliner, Navistar, Volvo O-Ring Assortment see #16-4140A and #16-4150**

O-Rings and Gaskets

(O-ring illustrations are actual size)

O-Rings and Gaskets for R12/22/500/502, and R134a

O-Rings (Standard Size) HNBR Material (Green)

Size	Fitting Size	R12/R134a
1/4"	Equalizer Tube	**16-4204**
5/16"	No. 6	**16-4206**
13/32"	No. 8	**16-4208**
1/2"	No. 10	**16-4210**
5/8"	No. 12	**16-4212**

Supplied 20 per box. Also packs of 100 or 1000
Add suffix -100 or -1000 (ex. 16-4106-1000).

16-4204 16-4206 16-4208 16-4210 16-4212

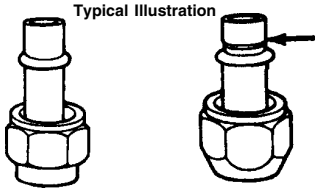
O-Rings (GM "Captured") HNBR Material (Green)

Size	Fitting Size	R12/R134a
.312	Condenser Fitting	**16-4207**
.364	Condenser Fitting	**16-4209**
.549	Accumulator	**16-4211**
.575	Block Fitting	**16-4213**

Supplied 10 per box.

Captured o-rings are used on some GM models after 1982. The o-ring is thicker than standard o-rings and is held in place by a groove on the connector tubing (see illustration).
Do not substitute with other type o-rings, otherwise leakage will result.

Typical Illustration



STANDARD TYPE

CAPTURED TYPE (Contains Groove)

16-4207 16-4209 16-4211 16-4213

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O-Rings and Gaskets

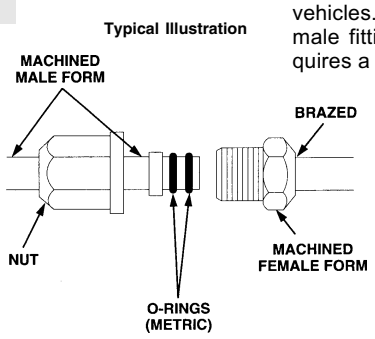
(O-ring illustrations are actual size)

O-Rings and Gaskets for R12/22/500/502, and R134a (continued)

O-Rings (GM "Dual")

Size	R12/R134a
1/2" (No. 8)	**16-4126**
5/8" (No. 10)	**16-4127**
3/4" (No. 12)	**16-4128**

Supplied 10 per box.



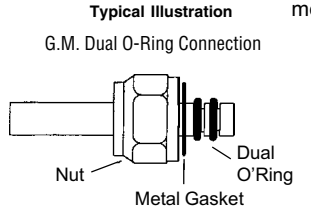
Dual o-ring connections are found on some 1990 and later GM vehicles. The dual o-ring joint consists of a "machined" brazed male fitting attached to a female "machined" fitting and requires a special tool (P/N 15-3120) for separation of the joint.

16-4126 **16-4127** **16-4128**

GM Dual Sealing Gaskets (Metal)

Size	Part No.
1/2"	**16-4037**
5/8"	**16-4038**
3/4"	**16-4039**

Supplied 5 per box.



Beginning in 1993, GM began using sealing gaskets (instead of o-rings) on the dual seal type fitting connection in various model vehicles.

16-4037 **16-4038** **16-4039**

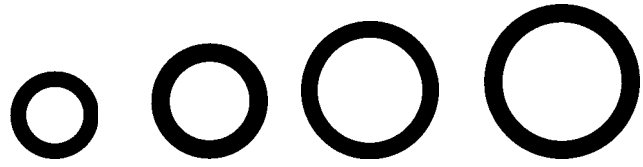
FORD Spring Lock Garters & O-Rings HNBR Material (Green)

(Also available P/N 16-4092 o-ring & garter assortment)

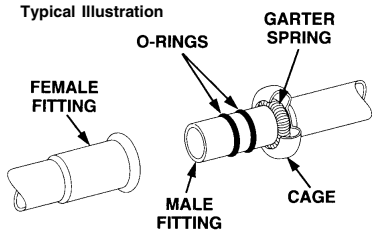
Size	Description	R12/R134a
No. 6	O-Ring	**16-4256**
No. 8	O-Ring	**16-4258**
No. 10	O-Ring	**16-4261**
No. 12	O-Ring	**16-4262**
No. 6	Garter Spring	**16-4075**
No. 8	Garter Spring	**16-4076**
No. 10	Garter Spring	**16-4077**
No. 12	Garter Spring	**16-4078**

Supplied 10 per box.

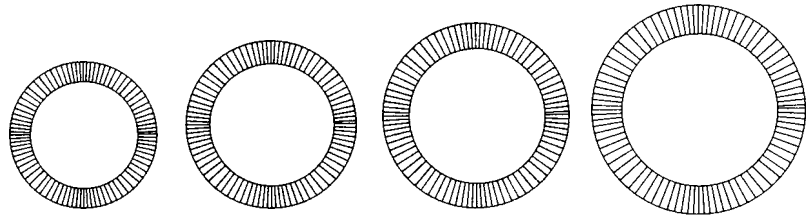
Used on many late model Ford vehicles. Two (2) o-rings and one (1) garter spring required per fitting. Do not substitute any other type o-rings. A special tool is required to disassemble each size Spring Lock Coupling (P/N's 16-4081 thru 16-4084).



16-4256 **16-4258** **16-4261** **16-4262**



SPRING LOCK COUPLING DISCONNECTION



16-4075 **16-4076** **16-4077** **16-4078**

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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O-Rings and Gaskets

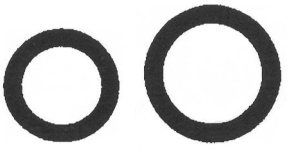
(O-ring illustrations are actual size)

DENSO 10PA15C

DENSO 10PA15C HNBR Material (Green)

Size	Description	Part No.
No. 8	Discharge (used on #4222A compr. fittg.)	**16-4151**
No. 10	Suction (used on #4223A compr. fittg.)	**16-4152**

Supplied 20 per box.



16-4151 **16-4152**

O-Rings and Gaskets (Compressors)

(O-ring illustrations are actual size)

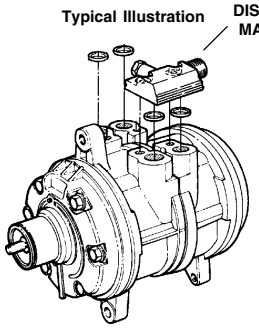
FORD COMPRESSORS

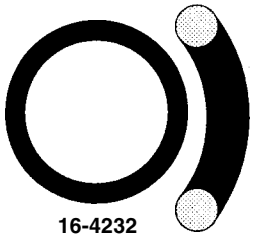
FORD FS6/6E171Compressor HNBR Material (Green) (R12/R134a)

(Replaces R12 "Red" O-Rings)

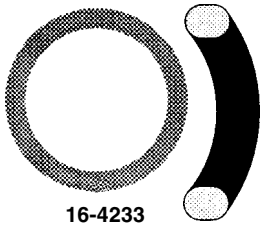
Description	Part No.
O-Rings (Round)	**16-4232**
O-Rings (Oval)	**16-4233**

Supplied 10 per box.





16-4232 Round

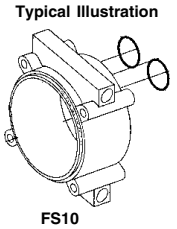


16-4233 Oval

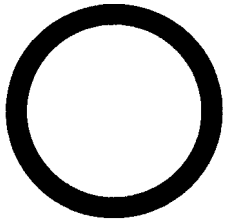
FORD FS10/FX15 Compressor HNBR Material (Green) (R12/R134a)

Description	Part No.
Service Port O-Rings	**16-4224**

Supplied 10 per box.



FS10 Rear Head



16-4224

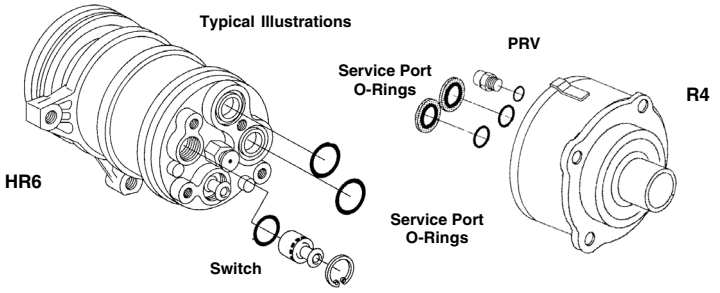
GENERAL MOTORS COMPRESSORS

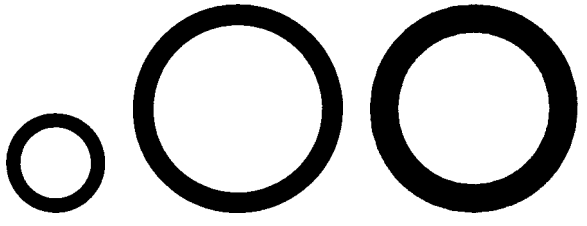
GM A6, R4, DA6, HR6 Compressors HNBR Material (Green) (R12/R134a)

Description	Qty.	Part No.
Oil Plug O-Rings	20	**16-4222**
Press. Relief Vlv. O-Rings	20	**16-4222**
Service Port O-Rings	20	**16-4224**
Switch Port O-Rings	20	**16-4223**

GM V5 Compressor HNBR Material (Green) (R12/R134a)

Description	Qty.	Part No.
Control Valve O-Rings	10	**16-4222**
Control Valve O-Rings	20	**16-4224**
Service Port O-Rings	20	**16-4224**
Switch Port O-Rings	20	**16-4223**





16-4222 **16-4223** **16-4224**

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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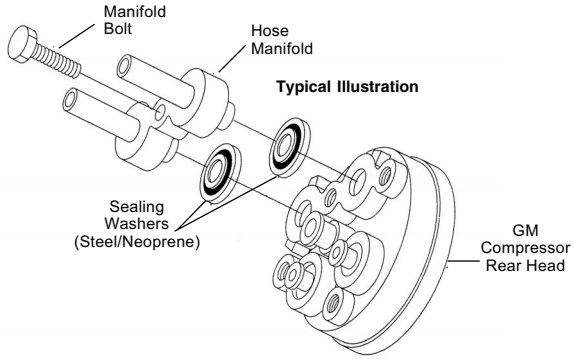
O-Rings and Gaskets (Compressors) (O-ring illustrations are actual size)

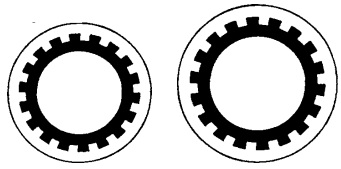
GENERAL MOTORS (continued)

GM Sealing Washers

Description	Qty.	Part No.
5/8" Thin Washer	5	**16-4045**
3/4" Thin Washer	5	**16-4046**

Beginning in 1992, GM began supplying both O.E. and aftermarket compressors with sealing washers. This one-piece washer consists of a flat metal washer with a molded rubber seal. They must be used only with compressors designed for sealing washers, they are not designed for use with round or oval o-ring style compressors.





16-4045 (Pilot 5/8" Thin) 1-1/32" OD

16-4046 (Pilot 3/4" Thin) 1-1/4" OD

FREIGHTLINER

FREIGHTLINER Sealing Washers (Black)

Description	O.D.	I.D.	Qty.	Part No.
# 6 Slimline	9/16"	5/16"	10	**16-4263**
# 8 Slimline	11/16"	7/16"	10	**16-4264**
#10 Slimline	3/4"	9/16"	10	**16-4265**

16-4263 #6 Slimline

16-4264 #8 Slimline

16-4265 #10 Slimline

STAT SEALS (Red)

Description	O.D.	I.D.	Qty.	Part No.
Compressor Stat (red)	1-1/8"	9/16"	10	**16-4272**
# 6 Mini Stat (red)	5/8"	5/16"	10	**16-4266**
# 8 Mini Stat (red)	3/4"	7/16"	10	**16-4267**
#10 Stat (red)	15/16"	9/16"	10	**16-4271**
#12 Stat (red)	1"	11/16"	10	**16-4273**

16-4272 Compressor

16-4266 # 6 Stat

16-4267 # 8 Stat

16-4268 # 10 Stat

16-4273 #12 Stat

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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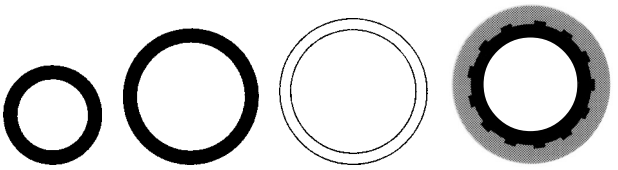
O-Rings and Gaskets (Compressors)

(O-ring illustrations are actual size)

CCI/YORK STYLE COMPRESSORS

CCI/York Style Compressors (R12/R134a)

Description	Qty.	Part No.
RotalockTeflon (white) Serv. Port O-Ring	20	**16-4018**
Tube-O (green) Service Port O-Ring	20	**16-4210**
Slimline (#10) Service Port O-Ring	10	**16-4265**
Oil Fill Plug (green) O-RIng	20	**16-4222**

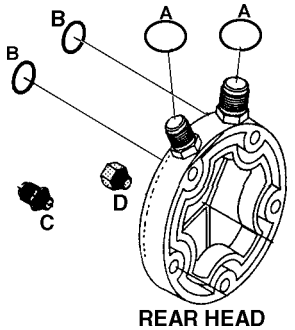


16-4222 **16-4210 Tube-O** **16-4018 Rotalock** **16-4265 Slimline**

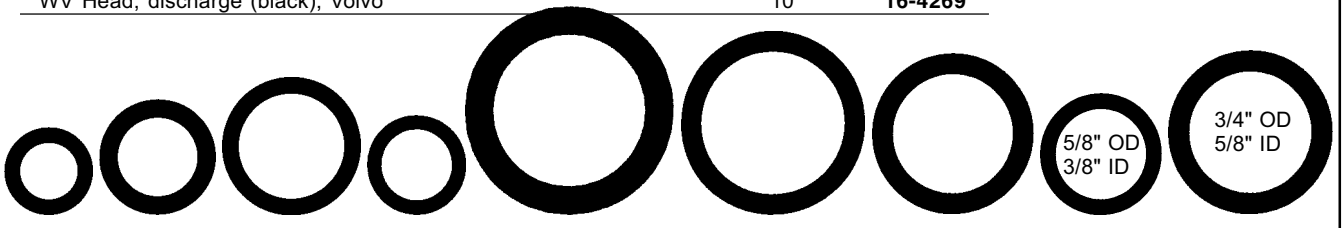
SANDEN COMPRESSORS

Description	Illust. No.	Qty.	Part No.
Discharge O-Ring	A	20	**16-4208**
Tube O-Ring type head, Discharge	A	20	**16-4210**
Suction O-Ring	A	20	**16-4210**
Discharge O-Ring (PAD Type) (Exc. GMC); FLX7, GV Head	B	10	**16-4243**
Suction O-Ring (PAD Type) (Exc. GMC); FLX7, GV Head	B	10	**16-4232**
Suction/Discharge O-Ring (GMC Pad)	B	10	**16-4224**
Oil Plug O-Ring, Shrader Port O-Ring	C	20	**16-4222**
P.R.V. (Mini) O-Ring	D	20	**16-4206**
GH Head (Pad) Freightliner (Stat Seal)		10	**16-4272**
Suction o-rings (yellow) Navistar O.E. 3543728-C1		10	**16-4249**
Discharge o-rings (yellow) Navistar O.E. 3543727-C1		10	**16-4248**
GWA Head, small flange gaskets,Discharge, Navistar O.E.3543881-C1		10	**16-4252**
GWA Head, large flange gaskets,Suction, Navistar O.E.3543882-C1		10	**16-4253**
WV Head, suction (black), Volvo		10	**16-4270**
GV Head, FLX7 (suction + discharge)		20	**16-4224**
WV Head, discharge (black), Volvo		10	**16-4269**

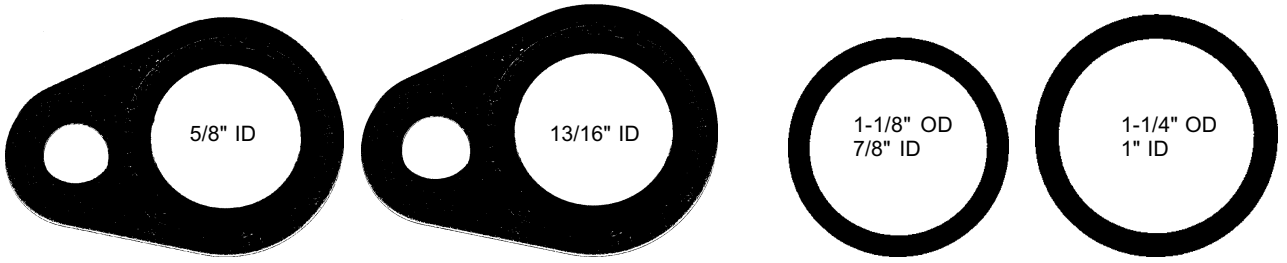
Typical Illustration



REAR HEAD



16-4206 **16-4208** **16-4210** **16-4222** **16-4224** **16-4232** **16-4243** **16-4248** Yellow **16-4249** Yellow



16-4252 **16-4253** **16-4269** **16-4270**

ITEM **See Assortment #16-4140A and #16-4150**

Our Fast Moving, Most Current Truck Model O-rings and Stat Seals Kits

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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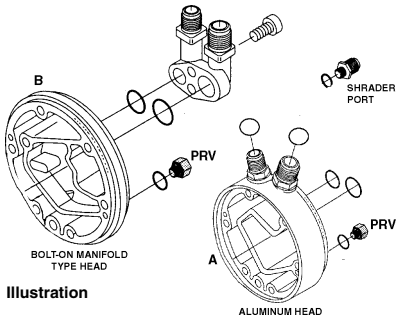
O-Rings and Gaskets (Compressors)

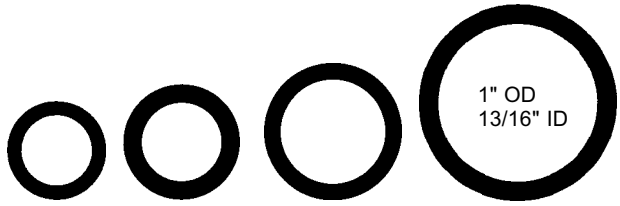
(O-ring illustrations are actual size)

SELTEC/TAMA/DIESEL-KIKI COMPRESSORS

Description	Illust. #	Head Type	Comp.Ser.	Box Qty	Part No.
Discharge O-Ring - Hose Fitting	A	Aluminum	BH,CH,Tama	20	**16-4208**
Tube-O type head - Hose Fitting	A	Aluminum	BH,CH,Tama	20	**16-4210**
Suction O-Ring - Hose Fitting	A	Aluminum	BH,CH,Tama	20	**16-4210**
Oil Plug O-Ring, Shrader Port O-Ring	A	All	BH,CH,Tama	10	**16-4222**
Suct./Disch. O-Ring - Manifold	B	Bolt-on	CH, Tama	20	**16-4144**



Typical Illustration



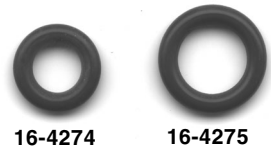
16-4222 16-4208 16-4210 16-4144

O-Rings

(O-ring illustrations are actual size)

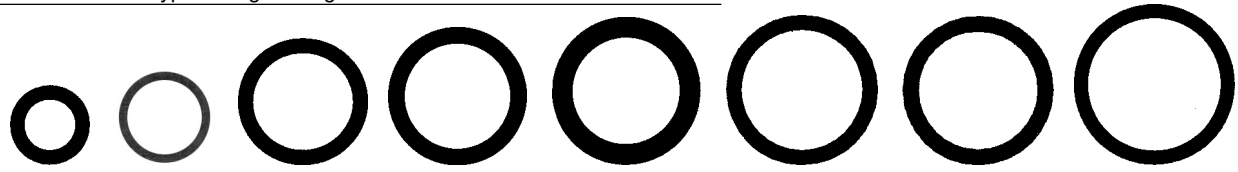
Accumulators, Driers, Pad and Orifice Tube O-Rings HNBR Material (Green)

Description	Box Qty	Part No.
In-line Drier O-Ring for #07-3054A, 07-3057A	2	**16-4130**
Std. No. 10 Accum. O-Ring	20	**16-4210**
GM Captured No. 12 Accum. O-Ring	20	**16-4211**
Std. No. 12 Accum. O-Ring	20	**16-4212**
GM Orifice Tube O-Ring (R12/R134a)	10	**16-4250**
GM Metric No. 12 Accum. O-Ring	10	**16-4260**
Ford No. 10 Metric Accum. O-Ring	20	**16-4261**
Ford No. 12 Metric Accum. O-Ring	20	**16-4262**
Ford No. 6 Pad Type Fitting O-Ring	10	**16-4274**
Ford No. 8 Pad Type Fitting O-Ring	10	**16-4275**
Ford No. 10 Pad Type Fitting O-Ring	10	**16-4276**
Ford No. 12 Pad Type Fitting O-Ring	10	**16-4277**



16-4274 16-4275

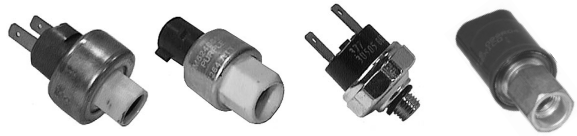
16-4276 16-4277



16-4250 16-4130 16-4261 16-4210 16-4211 16-4260 16-4262 16-4212

Pressure Switch O-Rings HNBR Material (Green)

Application	Type	Box Qty.	Part No.
GM Pressure Cycling Switch	A	20	**16-4206**
GM Low Pressure Cut-off Switch	B	20	**16-4206**
Ford R12 Pressure Cycling Switch	A	20	**16-4206**
All M10 Hi Pressure Switch	B,C,D	10	**16-4129**
All M12 thrd. Low Press. Sw.	A,B	20	**16-4219**



TYPE A TYPE B TYPE C TYPE D

16-4129 16-4206 16-4219

Always Lubricate New O-Rings & Lathe Cut Seals with Refrigerant Oil to Prevent Leaks!

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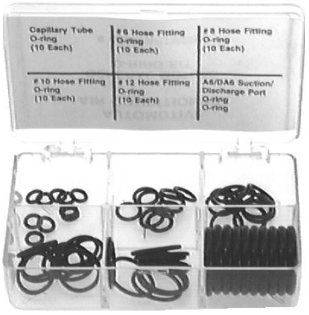
O-Ring Assortments

For all Refrigerants
(Supplied with thick o-rings)

16-4092
R12/R134a Ford Spring Lock O'Ring Kit
Garter springs & O'rings for all size couplers used on 1981 to present Fords.

Kit Contains:

P/N	Description
16-4256	O-rings
16-4258	O-rings
16-4261	O-rings
16-4262	O-rings
16-4075	Garter Springs
16-4076	Garter Springs
16-4077	Garter Springs
16-4078	Garter Springs


Capillary Tube O-ring (10 Each)
6 Hose Fitting O-ring (10 Each)
8 Hose Fitting O-ring (10 Each)
10 Hose Fitting O-ring (10 Each)
12 Hose Fitting O-ring (10 Each)
A6/DA6 Suction/ Discharge Port O-ring O-ring

A MUST!!!
For all Refrigerants

16-4093
R12/R134a Fitting O'Ring Kit
Complete O'ring assortment for standard size hoses.

Kit Contains:

P/N	Description
16-4204	No. 4 O-ring
16-4206	No. 6 O-ring
16-4208	No. 8 O-ring
16-4210	No. 10 O-ring
16-4212	No. 12 O-ring
16-4224	Service Port O-ring

A MUST for servicing GM late model vehicles. For all types of refrigerants.

16-4095
GM Captured O-Ring &
Dual O-Ring & Washer Assortment

Kit Contains:

P/N		Description
16-4037	1/2"	Dual Sealing Washer
16-4038	5/8"	Dual Sealing Washer
16-4039	3/4"	Dual Sealing Washer
16-4207	.312"	ID GM Condenser O-Ring
16-4209	.364"	ID GM Condenser O-Ring
16-4211	.549"	ID GM Accum. O-Ring
16-4213	.575"	ID GM Evap. O-Ring
16-4126	1/2"	GM Dual O-Ring
16-4127	5/8"	GM Dual O-Ring
16-4128	3/4"	GM Dual O-RIng
16-4250		GM Orifice Tube O-Ring

16-4140A
Most Current Truck Models, O-Ring Servicing Kit

Kit Contains:

P/N	Qty	Description
16-4206	20	No. 6 O-Ring
16-4208	20	No. 8 O-Ring
16-4210	20	No. 10 O-Ring
16-4212	10	No. 12 O-Ring
16-4224	10	GMC Compr. Suct/Disc O-Ring
16-4248	5	Navistar WG Head/Discharge O-Ring
16-4249	5	Navistar WH Head/Suction O-Ring
16-4252	2	Navistar Discharge Gasket/Small
16-4253	2	Navistar Suction Gasket/Large
16-4263	5	Freightliner Slimline #6
16-4264	5	Freightliner Slimline #8
16-4265	5	Freightliner Slimline #10
16-4266	5	Freightliner Drier Stat-Seal #6
16-4267	5	Freightliner Cond. Stat-Seal #8
16-4271	5	Freightliner Evap. Stat-Seal #10
16-4269	5	Volvo WV Head/Discharge
16-4270	5	Volvo WV Head/Suction
16-4272	5	Freightliner Compr. Suct/Disc Stat-Seal

16-4140
Master Shop Kit
R12/R134A Compatible

O-Ring & Gasket Serice Item Assortment Specifically for HD Truck Applications!

Kit Contains:

P/N	Description
16-4104	No. 4 O-Ring
16-4106	No. 6 O-Ring
16-4108	No. 8 O-Ring
16-4110	No. 10 O-Ring
16-4112	No. 12 O-Ring
16-4124	GM Compressor O-Ring
16-4018	York/CCI/Tecumseh Teflon O-Ring
16-4122	York/CCI/Sanden Oil Fill O-Ring
16-4123	GM Compressor Switch Port O-Ring
16-3042	3/6" Shrader Port Caps
16-3045	Tecumseh Stem Caps
16-3046	1/4" Shrader Port Caps
16-3014	Charging Hose Seals & Depressors
16-3016	Can Tap Seals
16-3143	Shrader Cores
12-3015	Expansion Valve Screens
02-3100	GM Compressor Shaft Key
02-3101	York/CCI/Tecumseh Shaft Key
02-3103	GM Hub Nut & Washer Kit
02-3105	Sanden Shaft Key

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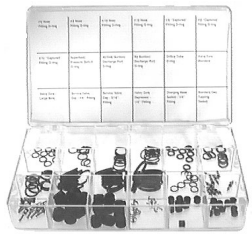
O-Ring Assortments



16-4142
MASTER O'RING SERVICE KIT
R12 / R134a Compatible

Kit Contains the following parts:

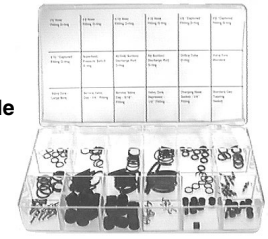
P/N	Description
16-4204	O'ring - Capillary Tube (10 ea.)
16-4206	O'ring - #6 Hose Fitting (10 ea.)
16-4208	O'ring - #8 Hose Fitting (10 ea.)
16-4210	O'ring - #10 Hose Fitting (10 ea.)
16-4212	O'ring - #12 Hose Fitting (10 ea.)
16-4224	O'ring - GM Suction/Discharge (10 ea.)
16-3443	Tecumseh/York Flange Gasket (4 ea.)
16-3143	Schrader Core (10 ea.)
16-3037	Charging Hose Seals (10 ea.)
16-3038	Valve Core Depressor (10 ea.)
16-3158	1/4" Service Cap (10 ea.)
16-3042	3/16" Service Cap (10 ea.)
16-4018	Rotalock Teflon Seal (10 ea.)
16-3045	Service Valve Cap (3 ea.)
02-3100	GM Shaft Key (3 ea.)
02-3105	Sanden Shaft Key (3 ea.)
02-3101	CCI/York/Tecumseh Key (3 ea.)

NEW ITEM

#6 SLIMLINE WASHER 0126 16-4263
#8 SLIMLINE WASHER 0127 16-4264
#12 STAT SEAL WASHER 0142 16-4273
#6 STAT SEAL WASHER 0130 16-4266
#8 STAT SEAL WASHER 0131 16-4267
#10 SLIMLINE WASHER 0128 16-4265
COMPRESSOR STAT SEAL WASHER 0140 16-4272
EVAPORATOR STAT SEAL WASHER 0141 16-4271

16-4150
FREIGHTLINER (Later Models) -
SLIMLINE AND STAT SEAL ASSORTMENT
Kit contains 10 pieces of each:

P/N	Description
16-4263	Slimline Seal #6
16-4264	Slimline Seal #8
16-4265	Slimline Seal #10
16-4266	Stat Seal #6
16-4267	Stat Seal #8
16-4271	Stat Seal #10 (evaporator)
16-4272	Stat Seal (compressor)
16-4273	Stat Seal #12



16-4200
UNIVERSAL O'RING ASSORTMENT
HNBR Material R12 / R134a Compatible

Kit contains 10 pieces of each:

P/N	Description
16-4126	GM #8 Dual O-ring
16-4127	GM #10 Dual O-ring
16-4128	GM #12 Fitting / ATCO #10 Compr. Fitting Seal
16-4144	Seltec TM15,TM16 Compr Manifold O-ring
16-4204	GM Capillary Tube Seal
16-4206	#6 Hose Fitting Seal
16-4207	Ford ExpVlv Seal/GM #6 "Captured"Fitting Seal
16-4208	#8 Hose Fitting Seal/V5 Control Valve Seal
16-4209	GM #8 "Captured" Fitting Seal
16-4210	#10 Hose Fitting Seal
16-4211	GM #10 "Captured" Fitting Seal
16-4212	#12 Hose Fitting Seal/V5 Control Valve Seal
16-4213	GM Carbon Seal/GM #12 "Captured" Fitting
16-4222	GM Pressure Valve Seal
16-4223	GM PressureSwitch Port
16-4224	GM Suc./Disc. Manifold Seal
16-4233	Ford Manifold Seal (oval cross section)
16-4250	#8 Hose Fitting /Drier

16-4000E
E-Z CLIP O-RINGS
O-rings for E-Z Clip Fittings

P/N	Description
16-4101E	#6
16-4102E	#8
16-4103E	#10
16-4104E	#12

(10 pcs. each size)

Retrofit Assortment Kits

16-6005
Retrofit Port Adapter Assortment (Small)
Includes Adapters and Disabler Caps.

P/N	Qty.	Description
08-8400	2	3/16" x 16mm Adapter
08-8401	2	1/4" x 13mm Adapter
08-8402	2	1/4" x 16mm Adapter
08-8490	2	3/16" x 16mm Adapter - 90°
08-8491	2	1/4" x 13mm Adapter - 90°
08-8492	2	1/4" x 16mm Adapter - 90°
08-8410	10	3/16" Disabler Cap
08-8411	10	1/4" Disabler Cap

16-6020
R134a Steel RetroFit Starter Assortment
Complete steel fitting assortment, including retrofit labels, schrader cores and port eliminator caps.

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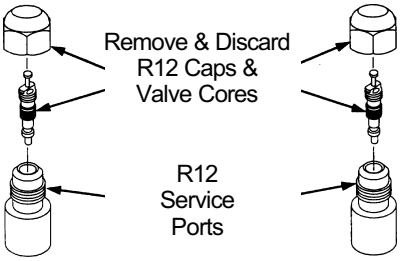
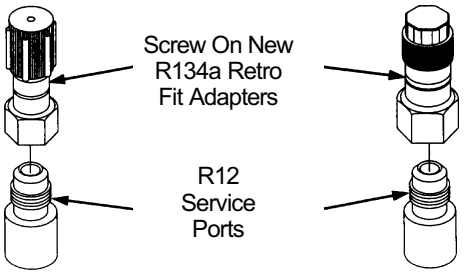
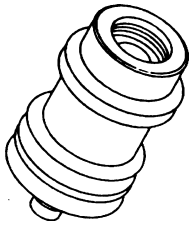
RetroFit Charging Adapters and Fittings





When retrofitting R12 systems to R134a, these fittings attach directly over the old R12 charging ports.
Includes threadlock to prevent removal and new R134a schrader valve.

Steel

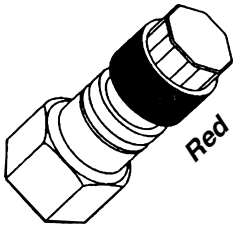


Weld on RetroFit Fittings
08-8313S 13mm
08-8316S 16mm
Includes Valve Core and Cap

Aluminum

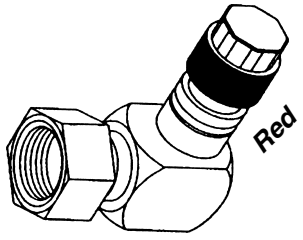
08-8438 16mm
Primary Seal Fitting
Male Thread-12mm x 1.5

Steel



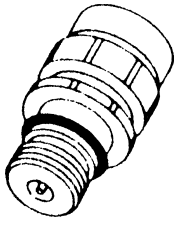
08-8402 High Side
1/4" (7/16" -20) to 16mm Red Cap
Includes Valve Core, Neoprene O'Ring and Threadlock. Hi-side

Steel



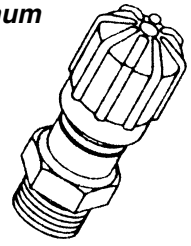
08-8492 High Side
1/4" (7/16" -20) to16mm Red Cap
Includes Valve Core, Neoprene O'Ring and Threadlock.

Aluminum



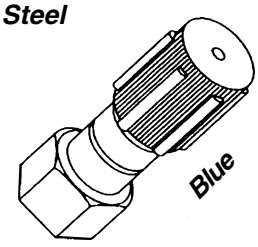
08-8412 16mm
GM Primary RetroFit Adapter
Male Thread-12mm x 1.5

Aluminum



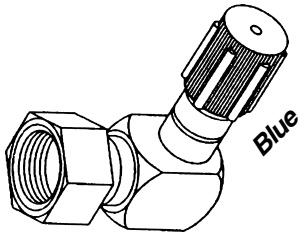
08-8435 13mm (1/4")
08-8432 16mm (3/16")
OEM High Flow Port
Includes Valve Core and Cap

Steel



08-8401 Low Side
1/4" (7/16" -20) to 13mm Blue Cap
Includes Valve Core, Neoprene O'Ring and Threadlock.

Steel

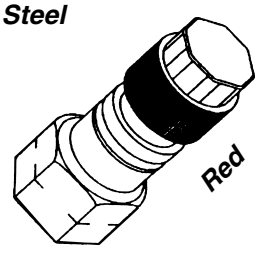


08-8491 Low Side
1/4" (7/16" -20) to 13mm Blue Cap
Includes Valve Core, Neoprene O'Ring and Threadlock.

Aluminum

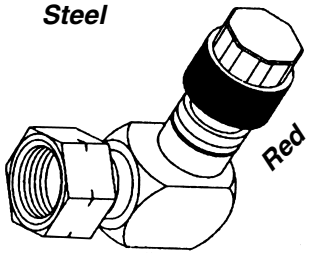
08-8437
Low Side Primary Seal
Female Thread-10mm x 1.25

Steel



08-8400 High Side
3/16" (3/8" -24) to 16mm Red Cap
Includes Valve Core, Neoprene O'Ring and Threadlock.
(Notch in nut designates 3/8")

Steel



08-8490 High Side
3/16" (3/8" -24) to 16mm Red Cap
Includes Valve Core, Neoprene O'Ring and Threadlock.
(Notch in nut designates 3/8")

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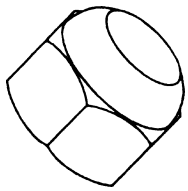
Service Caps

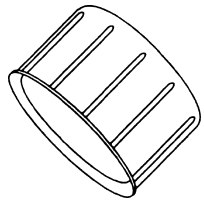
Plastic

16-3042 3/16"
16-3158 1/4"
10 per box



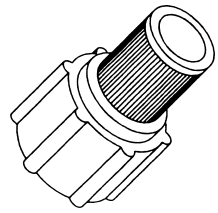
Brass

16-3046 1/4"
For Access Port on
Backseat Service Valves
10 per box



Plastic
CCI / York- Tecumseh

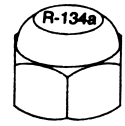
16-3032
1"-14 Port Caps
10 per box



Black Plastic

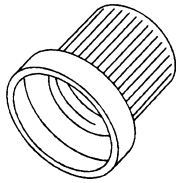
16-3045
Backseat Service Vlv Cap
10 per box

Disable R12 1/4" and 3/16" service ports. Includes neoprene o'rings and threadlock.

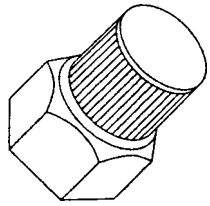


Aluminum
Disabler Cap

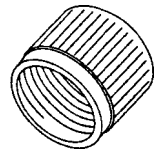
08-8410 3/16"
08-8411 1/4"
10 per box



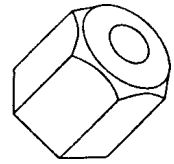
16-3159
GM Accumulator (plastic)
12mm Switch Port
10 per box



16-3460
Metric (M10 x 1.25)
(black) *10 per box*

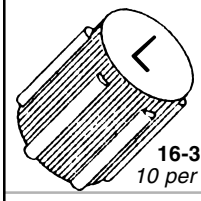


16-3461
Metric (M12 x 1.25)
(black) *10 per box*



16-3462
Metric (M12 x 1.25)
(black) *10 per box*

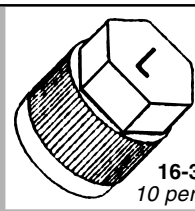
R134a Service Caps



16-3145
10 per box

Color:
Black
Blue with L (Low Marking)

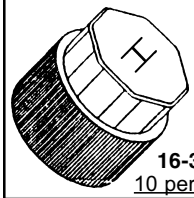
Applications:
*Bridgeport Piedmont OEM R134a 13mm Port
*Bridgeport Piedmont RetroFit 13mm Adapter
*Refrigeration Sales R134a RetroFit 13mm Adapter



16-3443
10 per box

Color:
Blue with L (Low Marking)

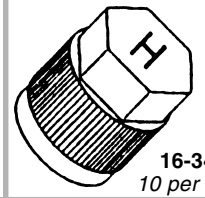
Applications:
*Bridgeport Piedmont OEM R134a 13mm JRA Port



16-3146
10 per box

Color:
Black
Red with H (High Marking)

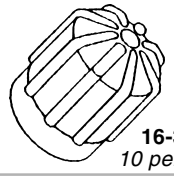
Applications:
*Bridgeport Piedmont OEM R134a 16mm Port
*Bridgeport Piedmont RetroFit 16mm Adapter
*Refrigeration Sales R134a RetroFit 16mm Adapter



16-3444
10 per box

Color:
Red with H (High Marking)

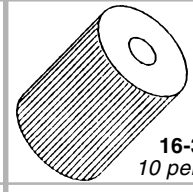
Applications:
*Bridgeport Piedmont OEM R134a 16mm JRA Port



16-3156
10 per box

Color:
Blue

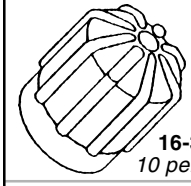
Applications:
*Aeroquip OEM R134a 13mm Port
*Aeroquip Piedmont RetroFit 13mm Adapter
*Frig-C Low Side R134a RetroFit Adapter



16-3445
10 per box

Color:
Black

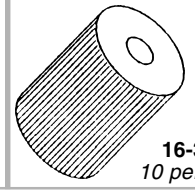
Applications:
*Eaton OEM SSV High Flow R134a 13mm Port
*Refrigeration Sales CCI Service Valve w/Eaton SSV High Flow 13mm Port



16-3157
10 per box

Color:
Red

Applications:
*Aeroquip OEM R134a 16mm Port
*Aeroquip Piedmont RetroFit 16mm Adapter
*Frig-C High Side R134a RetroFit Adapter



16-3446
10 per box

Color:
Black

Applications:
*Eaton OEM SSV High Flow R134a 16mm Port
*Refrigeration Sales CCI Service Valve w/Eaton SSV High Flow 16mm Port

Bridgeport Piedmont (Schrader Bridgeport) OEM ports are typically found on some GM and Ford Vehicles.
Eaton OEM ports are typically found on some heavy duty trucks and equipment and some Ford vehicles.
Aeroquip OEM ports are typically found on Chrysler, Ford heavy duty trucks, Navistar, John Deere, some GM & Ford vehicles, and numerous import vehicles.

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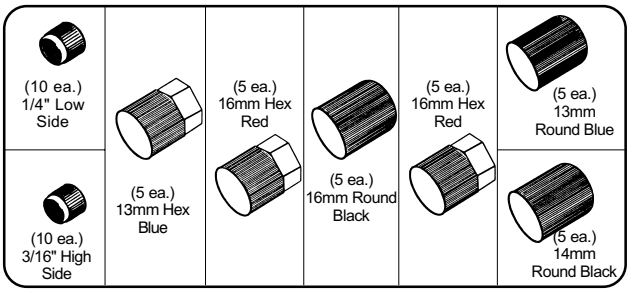
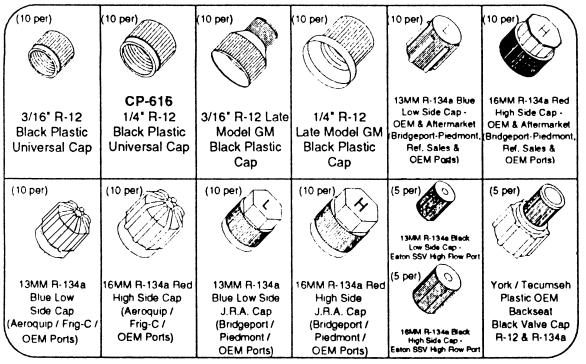
SERVICE CAP ASSORTMENTS

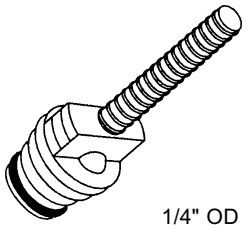

(10 ea.) 1/4" Low Side
(10 ea.) 3/16" High Side
(5 ea.) 13mm Hex Blue
(5 ea.) 16mm Hex Red
(5 ea.) 16mm Round Black
(5 ea.) 16mm Hex Red
(5 ea.) 13mm Round Blue
(5 ea.) 14mm Round Black

16-4143
Complete Charging Port Cap Kit for R*12/R134a*


(10 per) 3/16" R-12 Black Plastic Universal Cap
(10 per) CP-616 1/4" R-12 Black Plastic Universal Cap
(10 per) 3/16" R-12 Late Model GM Black Plastic Cap
(10 per) 1/4" R-12 Late Model GM Black Plastic Cap
(10 per) 13MM R-134a Blue Low Side Cap - OEM & Aftermarket (Bridgeport-Piedmont, Ref. Sales & OEM Ports)
(10 per) 16MM R-134a Red High Side Cap - OEM & Aftermarket (Bridgeport-Piedmont, Ref. Sales & OEM Ports)
(10 per) 13MM R-134a Blue Low Side Cap (Aeroquip / Frig-C / OEM Ports)
(10 per) 16MM R-134a Red High Side Cap (Aeroquip / Frig-C / OEM Ports)
(10 per) 13MM R-134a Blue Low Side J.R.A. Cap (Bridgeport / Piedmont / OEM Ports)
(10 per) 16MM R-134a Red High Side J.R.A. Cap (Bridgeport / Piedmont / OEM Ports)
(5 per) 13MM R-134a Black Low Side Cap - Eaton SSV High Flow Port
(5 per) 16MM R-134a Black High Side Cap - Eaton SSV High Flow Port
(5 per) York / Tecumseh Plastic OEM Backseat Black Valve Cap R-12 & R-134a

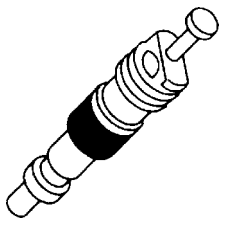
16-4148
***R12/R134a* Service Cap Kit**

Schrader Valve Cores

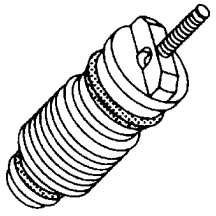


1/4" OD

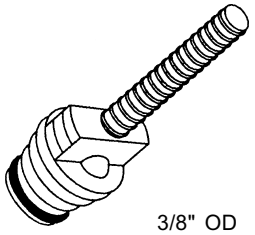
16-3049
1/4"- GM High Flow Large Bore Valve Core
1/4" Service Port
10 per box



16-3143
1/4"- Replacement Valve Core R12/R134a
1/4" Service Port
10 per box

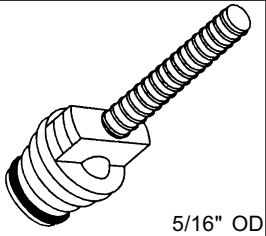


16-3147
M6 - Valve Core
R134a Hi-Flow JRA
10 per box



3/8" OD

16-3148
M10 - Eaton 16mm SSV
High Flow Low Side
5/16" Service Port
10 per box

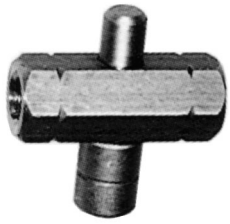


5/16" OD

16-3149
M8 - Eaton 13mm SSV
High Flow High Side
3/8" Service Port
10 per box

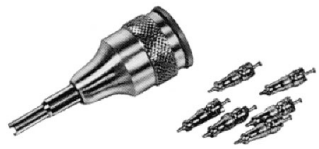
Schrader Core Remover/Installers &Tools

16-3121
Schrader Core Remover/ Installer - R12/R134a Universal



16-3122
Schrader Valve Rethreading Tool - R12
Cleans and Deburs O.E. Schrader Ports

16-3434
Heavy Duty Core Removal Tool - R134a



15-3011
Schrader Tool - R12
With storage for extra cores. Includes 6 cores.

16-3201
Shrader Core Assortment -
For R12/R134a A/C Systems
Kit Includes:

P/N	Qty	Description
16-3049	5	GM Large Bore Cores
16-3143	20	Std. R12/R134a Cores
16-3147	10	JRA High Flow Cores
16-3148	5	Eaton SSV High Flow Cores
16-3149	5	Eaton SSV High Flow Cores

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Service Port Tools

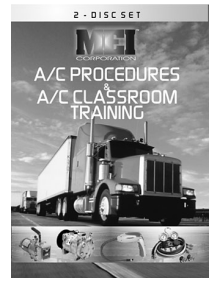
16-3154
Service Port Brush
Cleans & deburs all 3/16", 1/4", M8, M10 & M12 Service Ports

16-3426
Service Port Reamer Tool - R134a
Eliminates burrs which nick and cut coupler o'rings causing them to leak.

15-3147 Low Side - R134a
15-3148 High Side - R134a
Octagon Service Port Sockets
Specially designed thin wall sockets for eight sided retrofit adapter.

- Chevrolet/GMC
- Ford
- Freightliner
- International
- Isuzu
- Iveco
- Kenworth
- Mack
- Mitsubishi
- Nissan
- Peterbilt
- Volvo GM

16-3028B
A/C Service Manual
Covers service procedures for R12 / R134a H.D. Trucks.



DVD Features
- Theory & Operation
- Component Function
- Trouble Shooting
- System Diagnosis
- Service procedures

1000-DVD
A/C Procedures & Classroom Training DVD
Heavy Duty A/C Clinic on DVD - two-disc set features over two hours of classroom instruction along with some procedures to follow while diagnosing the A/C system. The DVD was professionally filmed and edited to assure high quality.

Valve Core Service Tool Kits

16-3188
Universal Master Kit - R12/R134a
(Incl. Eaton M8 & M10)
- Valve Assembly
- R134a high side 16mm connector
- R134a low side 13mm connector
- 1/4" FL swivel connector
- Standard valve core remover/installer assembly
- GM large bore valve core remover/installer assembly
- JRA R134a valve core remover/installer
- Eaton R134a low side valve core remover/installer
- Eaton R134a high side valve core remover/installer
- Adapter 1/4"-M x 3/16"-F high side GM/Ford
- Adapter 1/4"-M x 1/8"-F high side Ford

16-3189
Eaton (M8 & M10) Valve Core Kit - R134a
- Valve Assembly
- Eaton R134a low side valve core remover/installer
- Eaton R134a high side valve core remover/installer
- R134a high side 16mm connector
- R134a low side 13mm connector

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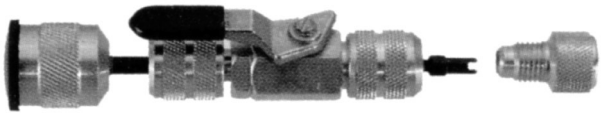
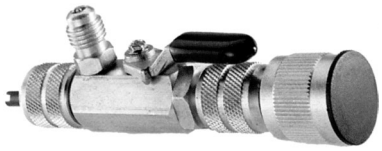
Valve Core Service Tools

These durable and versatile tools perform three time saving service tasks:
1. Removal and replacement of service valve cores without losing system charge.
2. Temporary removal of valve cores for quicker, more complete recovery, evacuation, and recharge.
3. Calculation of superheat with excellent accuracy by reading refrigerant temperature and pressure from the same location in the system.



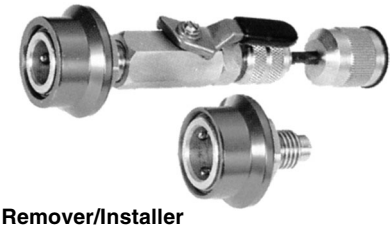
16-3125
GM Large Bore Valve Core Remover/Installer
Includes 1/4" x 3/16" adapter and 1/4" x 1/8" adapter.

16-3125T
Replacement Tip



16-3137
Valve Core Remover/Installer with Access Port
Temporary removal of service valve core eliminates the restriction it creates and provides full flow of refrigerant and vacuum during recovery, evacuation, and recharge saving valuable service time.

16-3166
Superheat Determination Set
Special Valve core remover/installer adapter allows replacement of damaged or faulty service valve cores without discharging the system. Valve replacement no longer requires time consuming refrigerant recovery. Calculation of superheat with excellent accuracy by reading refrigerant temperature and pressure from the same location in the system.

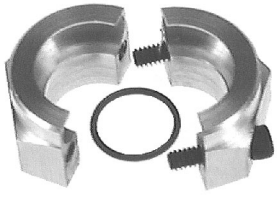


16-3466
R134a Valve Core Remover/Installer
Includes special R134a service port adapters.
NOTE: Wil not fit Eaton HiFlow type ports.

Spring Lock Coupling Repair Kits (For FORD Vehicles)

16-4080
Spring Lock Disconnect Tool
Set includes four sizes:
3/8", 1/2", 5/8", and 3/4"

Spring Lock Individual Disconnect Tools
16-4081 .....#6 ..... (3/8")
16-4082 .....#8 ..... (1/2")
16-4083 .....#10 ... (5/8")
16-4084 .....#12 ... (3/4")



Springlock Coupling Repair Kits
Nylon Construction
16-4085 ....#6 ..... (3/8")
16-4086 ....#8 ..... (1/2")
16-4087 ....#10 .... (5/8")
16-4088 ....#12 .... (3/4")

16-4092
R12/R134a Ford Spring Lock O'Ring Kit
Garter springs & O'Rings for all size couplers used on 1981 to present Fords.

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Vacuum Pumps

Part No.	No. of Stages	Free Air Displacement	Ultimate Vacuum	Pump Speed	Motor	Elec. Specs.	Weight
16-3425A	2	1.5 cfm	50 microns	1/6 hp	3450 rpm	110V/60 hz	12 lbs.
16-3422A		1.3 cfm	Air Operated - Pulls 29” of vacuum at sea level.				
16-3464A	2	5 cfm	25 microns	1/3 hp	1725 rpm	110V/60 hz	32 lbs.
16-3069	2	7.5 cfm	25 microns	1/2 hp	1725 rpm	110V/60 hz	34 lbs.

16-3425A
1.5 CFM Two Stage Vacuum Pump
Multi-refrigerant compatible.
Works with R12 & R134a.

Air Disp. ..... 1.5 CFM
Drive ..... Direct
Motor Size 1/6HP
Voltage 110-115V
Micron Rating ... 50 Microns
Oil Capacity ..... 8 oz.
Intake Fitting ..... 1/2" ACME; 1/4" Flare

16-3422A
Air Operated Light Duty Vacuum Pump
R12/R134a

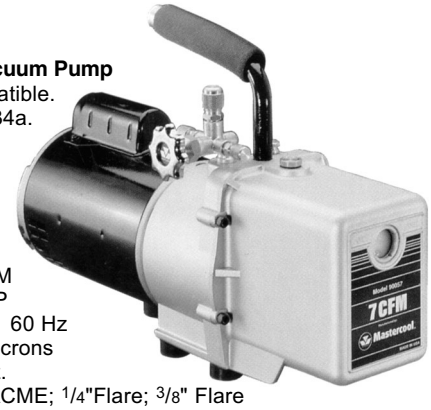
- Fast - Pulls 29" of vacuum at sea level.
- Air operated
- No oil required
- Maintenance free.
- Housed in sturdy, metal case.
- Ideal for service truck use.

Air Disp. ..... 1.3 CFM
Air Operated ..... Requires 4.5 CFM/90 PSI shop air
Intake Fitting ..... 1/2" ACME; 1/4" Flare

16-3464A
5 CFM Two Stage Vacuum Pump
Multi-refrigerant compatible.
Works with R12 & R134a.

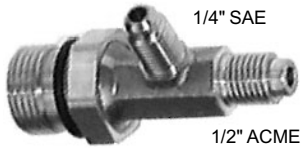
Air Disp. ..... 5 CFM
Motor Size ..... 1/3 HP
Voltage ..... 115V 60 Hz
Micron Rating .... 25 Microns
Oil Capacity ..... 13.5 oz. (399ml)
Intake Fitting ..... 1/2" ACME; 1/4" Flare; 3/8" Flare

16-3069
7 CFM Two Stage Vacuum Pump
Multi-refrigerant compatible.
Works with R12 & R134a.

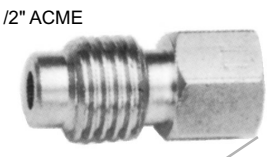


Air Disp. ..... 7 CFM
Motor Size ..... 1/2 HP
Voltage ..... 115V 60 Hz
Micron Rating ... 25 Microns
Oil Capacity ..... 22 oz.
Intake Fitting ..... 1/2" ACME; 1/4"Flare; 3/8" Flare

Vacuum Pump Conversion Fittings



16-3415
Retro-Adapter
Convert R12 pumps to R134a



16-3414
Retro-Adapter
Convert R12 pumps to R134a

16-3449
"T" Style Retro-Adapter
Convert R12 pumps to R134a

Vacuum Pump Oil

17-3082 ..... Quart
17-3083 ..... Gallon

Vacuum Pump Oil
Promotes internal sealing for good vacuum and absorbs unwanted vapor from evacuated units.
Regular oil changes promote longer vacuum pump life.

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